

FIG. 1

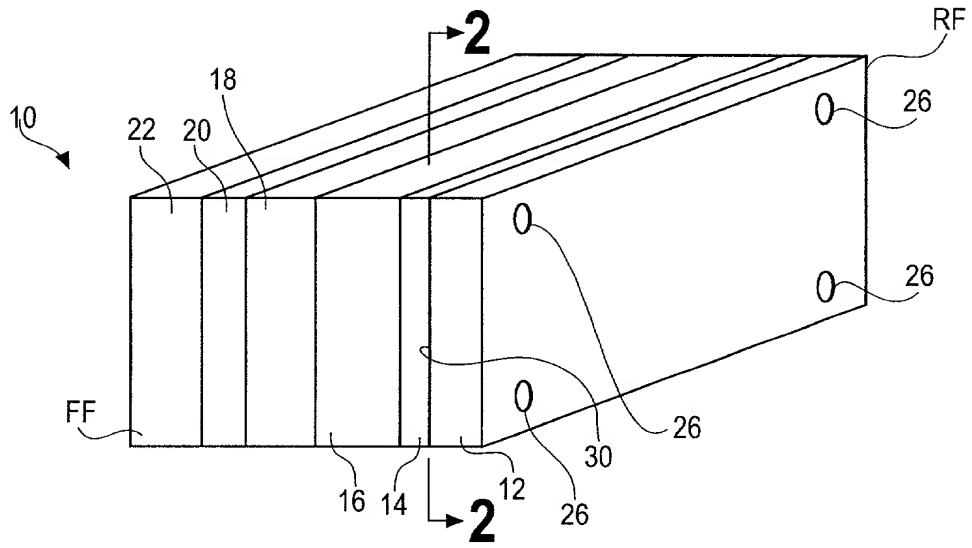


FIG. 2

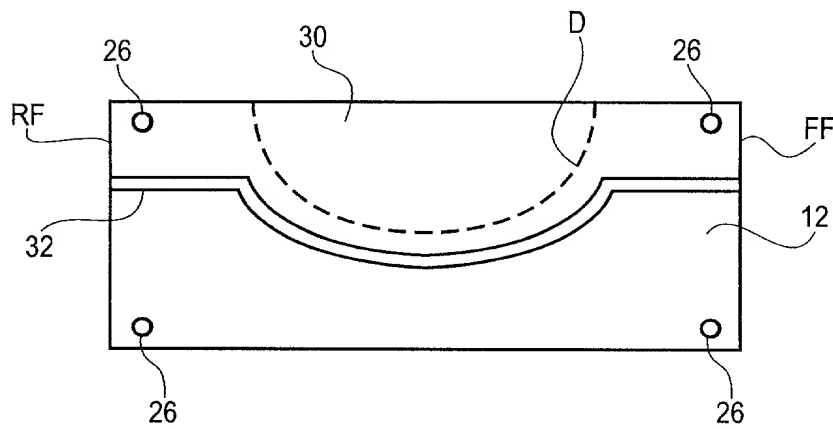


FIG. 3

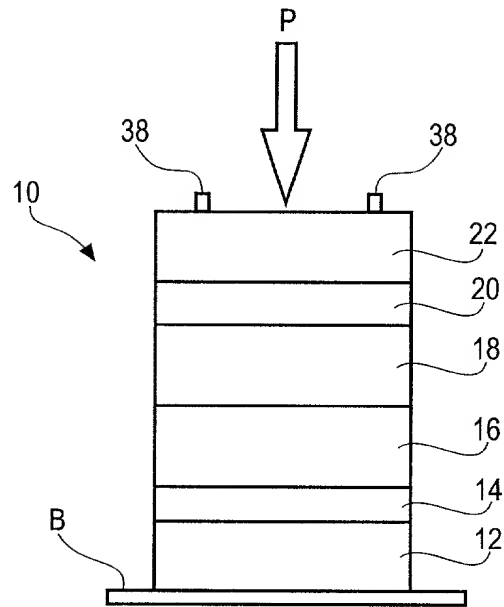
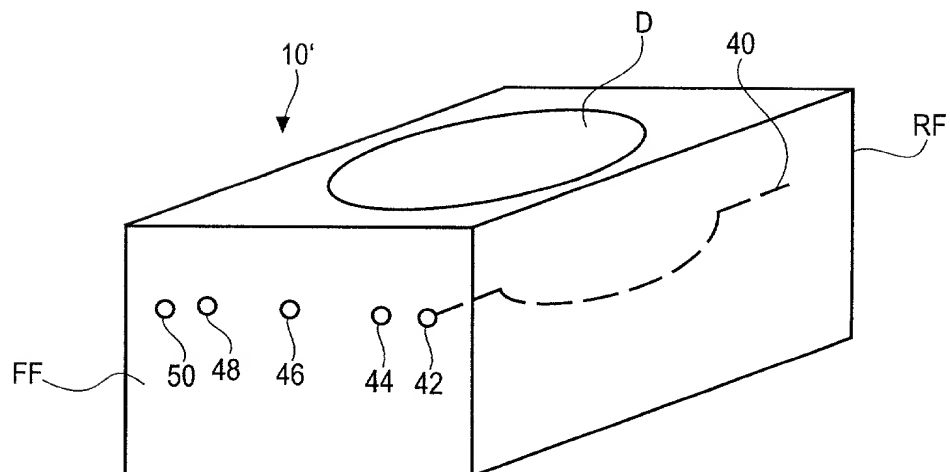


FIG. 4



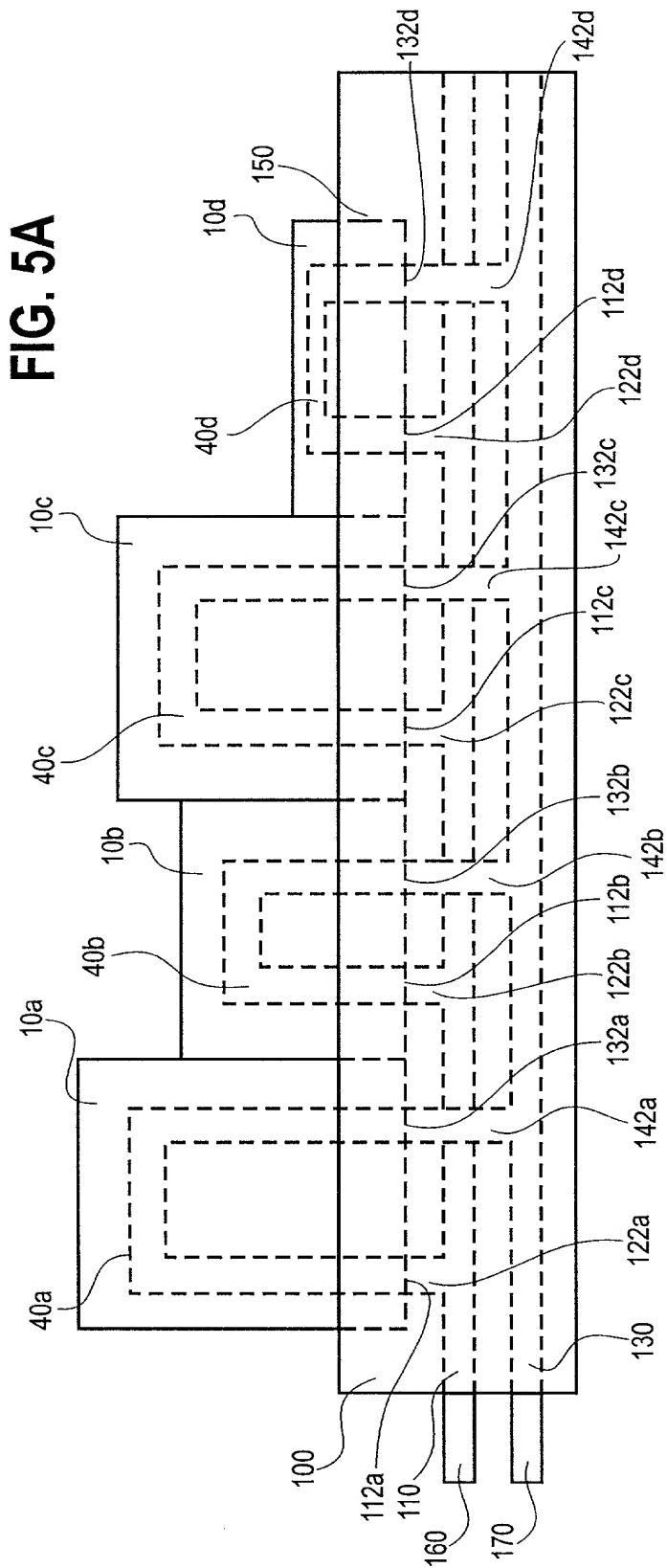


FIG. 5B

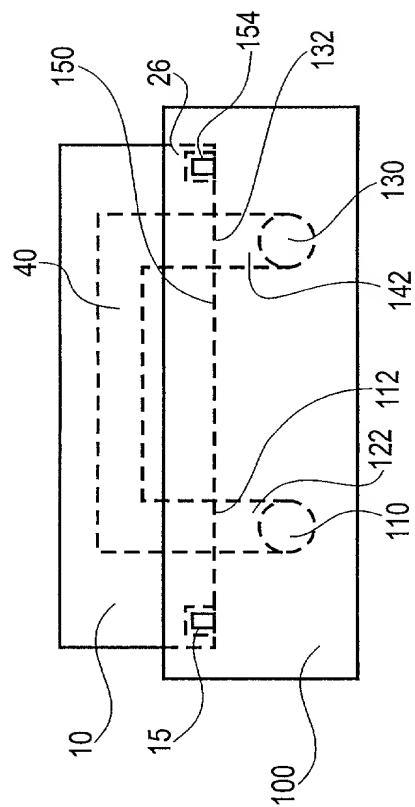


FIG. 6A

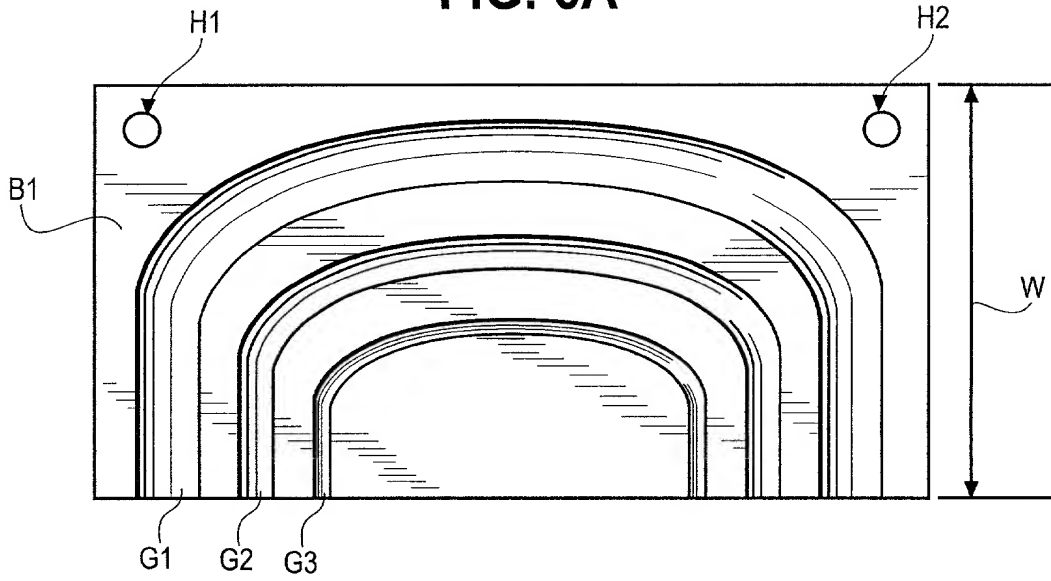


FIG. 6B

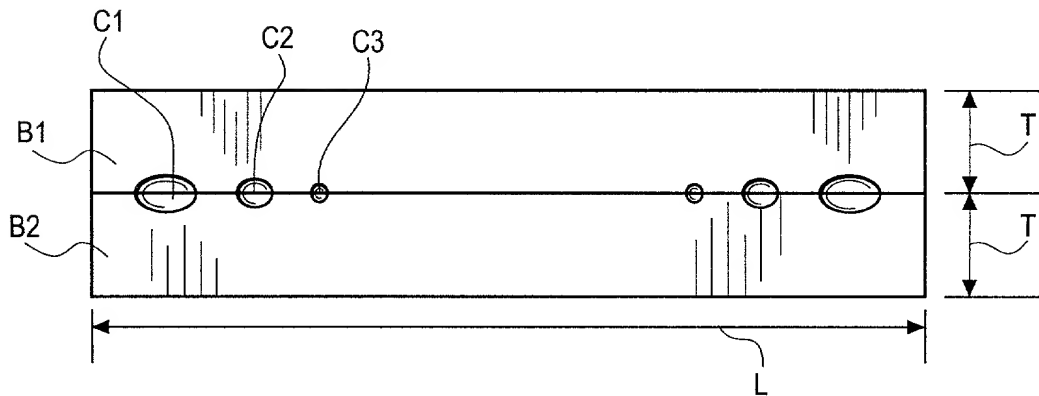


FIG. 7**BOND STRENGTH**

BOND PRESSURE, ksi	% DEFORMATION	HEAT TREATED	HARDNESS, Rc	STRENGTH, ksi
0.75	0.13	N	28	53
0.75	0.13	Y	54	45
1.5	1.5	N	30	143
1.5	1.5	Y	46	189
3.0	15.1	N	28	158
3.0	15.1	Y	46	219

S7 STRENGTH:

ANNEALED = 93ksi

HEAT TREATED = 300 KSI

S7 HARDNESS = 50 Rc

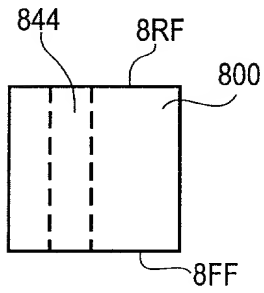
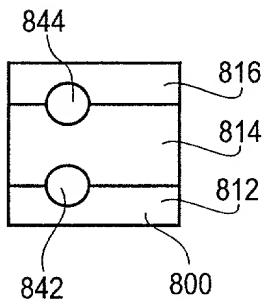
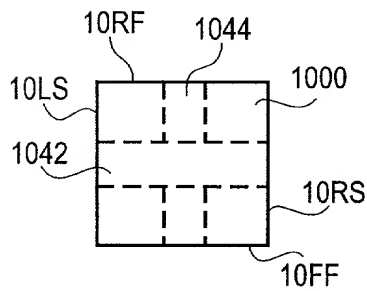
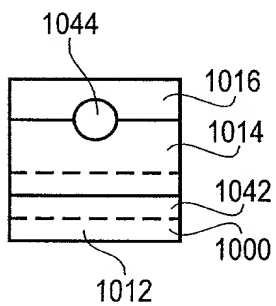
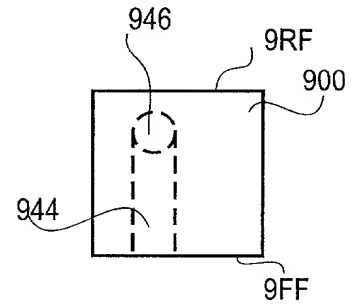
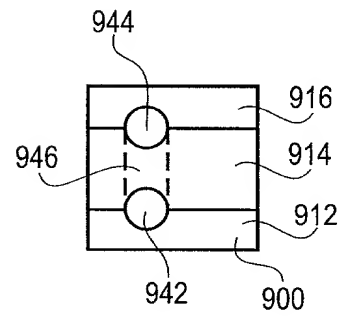
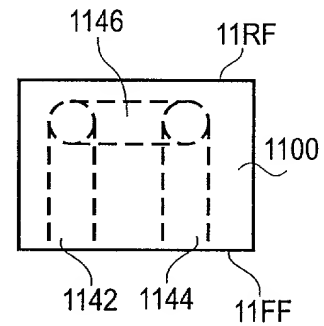
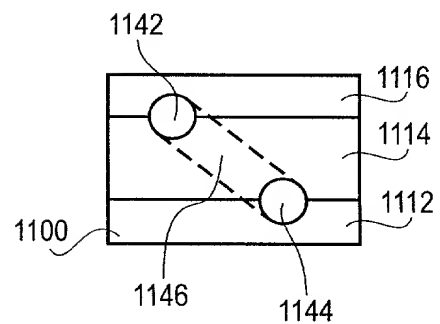
FIG. 8A**FIG. 8B****FIG. 10A****FIG. 10B****FIG. 9A****FIG. 9B****FIG. 11A****FIG. 11B**

FIG. 12A

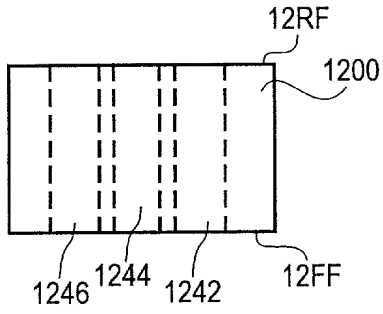


FIG. 13A

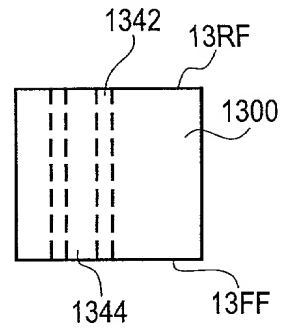


FIG. 12B

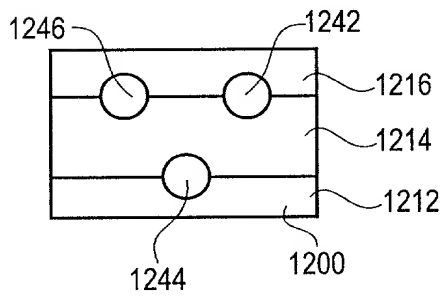


FIG. 13B

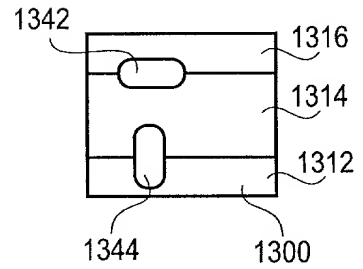


FIG. 14A

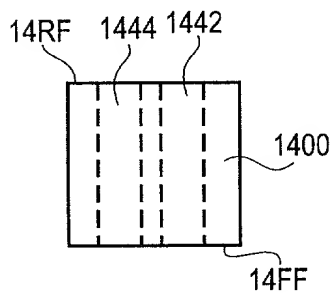


FIG. 15A

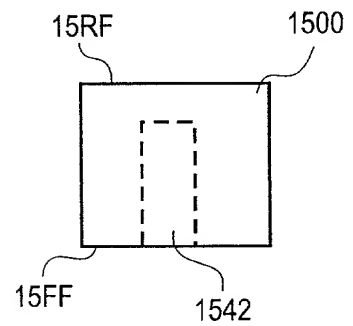


FIG. 14B

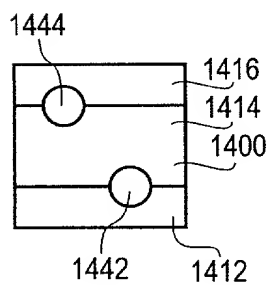


FIG. 15B

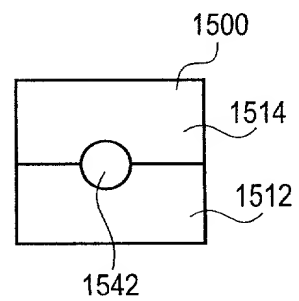


FIG. 12A